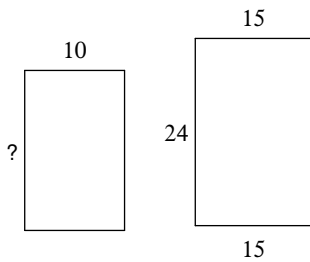


Using Similar Polygons

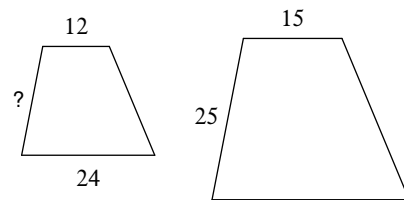
Date _____ Period _____

The polygons in each pair are similar. Find the missing side length.

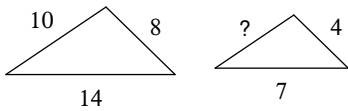
1)



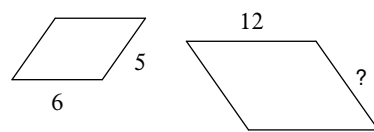
2)



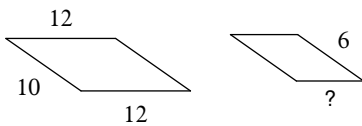
3)



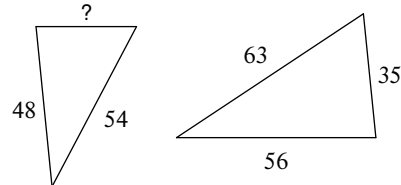
4)



5)



6)

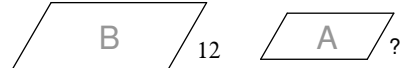


7)



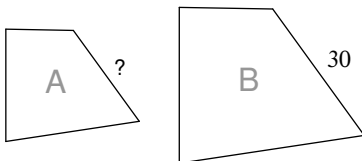
scale factor from A to B = 2 : 7

8)



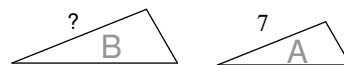
scale factor from A to B = 2 : 3

9)



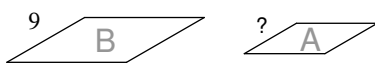
scale factor from A to B = 5 : 6

10)



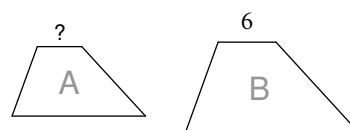
scale factor from A to B = 1 : 7

11)

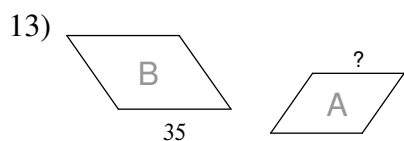


scale factor from A to B = 2 : 3

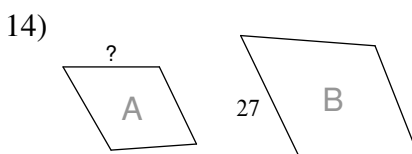
12)



scale factor from A to B = 1 : 2

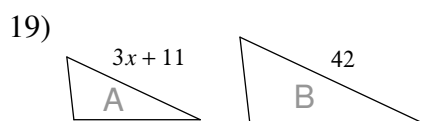
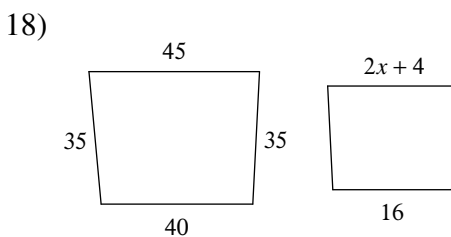
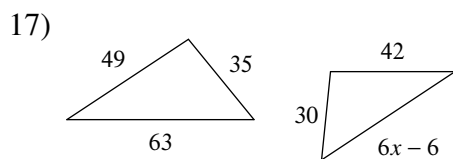
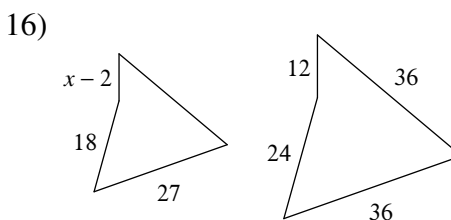
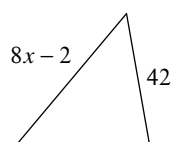
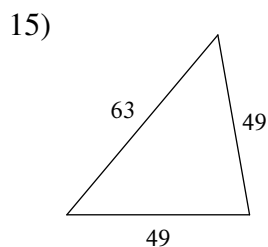


scale factor from A to B = 6 : 7

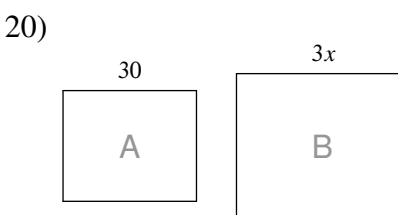


scale factor from A to B = 1 : 3

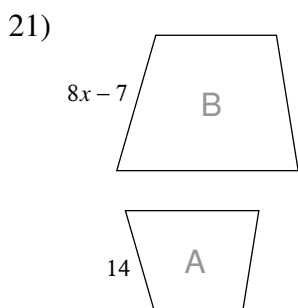
Solve for x . The polygons in each pair are similar.



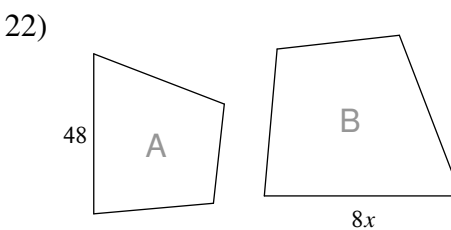
scale factor from A to B = 5 : 6



scale factor from A to B = 5 : 6



scale factor from A to B = 2 : 7



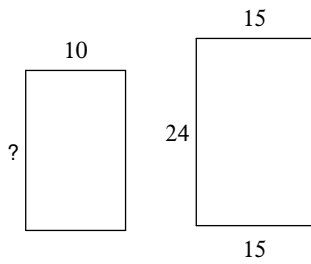
scale factor from A to B = 6 : 7

Using Similar Polygons

Date _____ Period _____

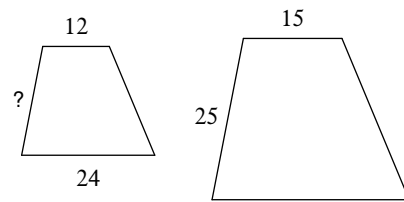
The polygons in each pair are similar. Find the missing side length.

1)



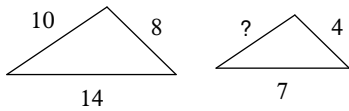
16

2)



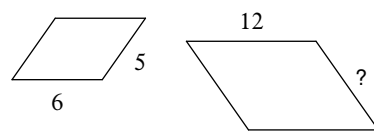
20

3)



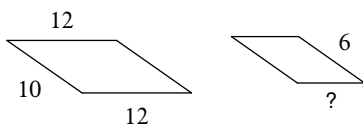
5

4)



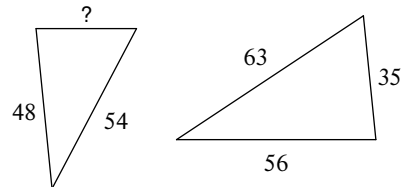
10

5)



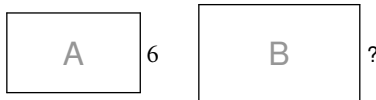
5

6)



30

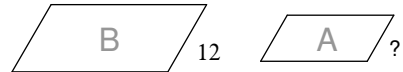
7)



scale factor from A to B = 2 : 7

21

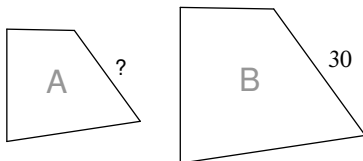
8)



8

scale factor from A to B = 2 : 3

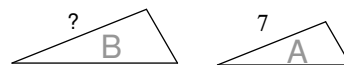
9)



scale factor from A to B = 5 : 6

25

10)



49

scale factor from A to B = 1 : 7

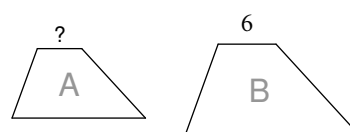
11)



6

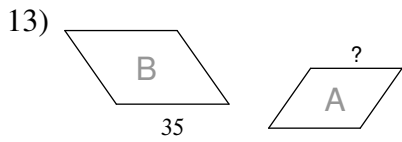
scale factor from A to B = 2 : 3

12)



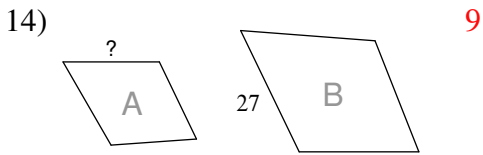
scale factor from A to B = 1 : 2

3



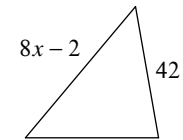
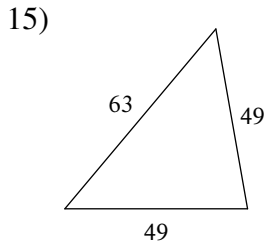
scale factor from A to B = 6 : 7

30

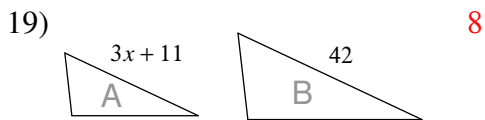
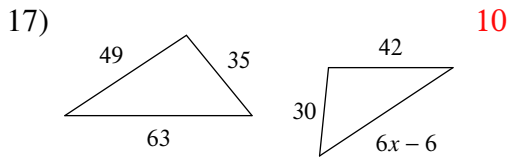


scale factor from A to B = 1 : 3

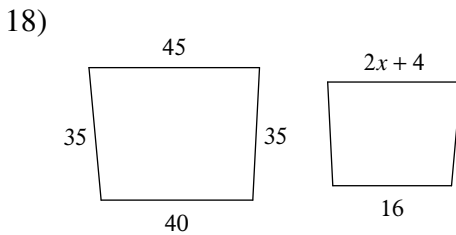
Solve for x . The polygons in each pair are similar.



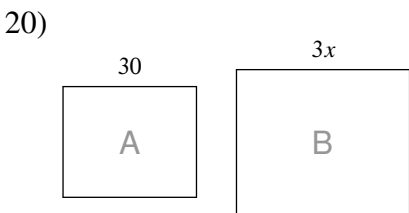
7



scale factor from A to B = 5 : 6

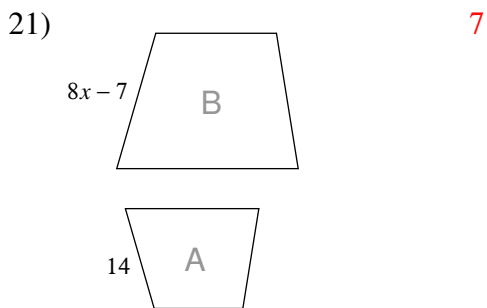


7

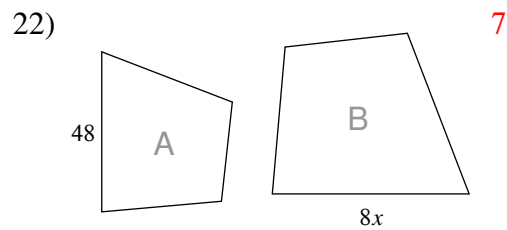


scale factor from A to B = 5 : 6

12



scale factor from A to B = 2 : 7



scale factor from A to B = 6 : 7